

Title (en)  
METHOD FOR PRODUCING CALCIUM CARBONATE

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON KALZIUMKARBONAT

Title (fr)  
PROCEDE DE PRODUCTION DE CARBONATE DE CALCIUM

Publication  
**EP 1256549 A4 20050105 (EN)**

Application  
**EP 01901395 A 20010117**

Priority  
• JP 0100269 W 20010117  
• JP 2000008953 A 20000118

Abstract (en)  
[origin: EP1256549A1] method for producing the calcium carbonate having arragonitic crystal form and being useful as a filler for paper in a causticizing step of a pulp-making process using the sulfate method or the soda method, which comprises adding with stirring, to caustic lime and/or slaked lime, an alkaline aqueous solution containing a carbonate ion in an amount of 0.25 mole or less relative to 1 mole in terms of caustic lime and having a hydroxyl ion concentration of 3 mole/liter or less so as for the resulting mixture to have a caustic lime concentration of 1 to 60 wt %, to thereby prepare a lime milk, adding a green liquor to the lime milk at a rate of 0.002 to 0.12 g (sodium carbonate)/min/g (caustic lime) at a reaction temperature of 30 to 105 DEG C, to carry out a causticizing reaction. The method allows taking advantage of a causticizing step for producing the calcium carbonate having arragonite crystal form which can impart improvements in bulkiness, whiteness, non-transparency, resistance to wire wear and yield in papermaking.

IPC 1-7  
**C01F 11/18**; **D21H 19/38**; **D21H 17/67**

IPC 8 full level  
**C01F 11/18** (2006.01); **C09D 7/12** (2006.01); **C09D 201/00** (2006.01); **D21C 11/04** (2006.01); **D21H 17/67** (2006.01); **D21H 19/38** (2006.01)

CPC (source: EP US)  
**C01F 11/181** (2013.01 - EP US); **D21H 17/675** (2013.01 - EP US); **D21H 19/385** (2013.01 - EP US); **C01P 2002/72** (2013.01 - EP US); **C01P 2004/10** (2013.01 - EP US); **C01P 2004/54** (2013.01 - EP US); **C01P 2004/61** (2013.01 - EP US)

Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 0153203A1

Cited by  
WO2014164738A3; US9975100B2; WO2015179222A1; US9637393B2; US10519041B2; US11014823B2; US11667538B2

Designated contracting state (EPC)  
AT BE CH FI FR LI SE

DOCDB simple family (publication)  
**EP 1256549 A1 20021113**; **EP 1256549 A4 20050105**; CA 2395937 A1 20010726; CA 2395937 C 20070424; CN 1264752 C 20060719; CN 1395543 A 20030205; JP 2001199720 A 20010724; JP 3808263 B2 20060809; US 2003049194 A1 20030313; US 7097819 B2 20060829; WO 0153203 A1 20010726

DOCDB simple family (application)  
**EP 01901395 A 20010117**; CA 2395937 A 20010117; CN 01803866 A 20010117; JP 0100269 W 20010117; JP 2000008953 A 20000118; US 18139702 A 20020716